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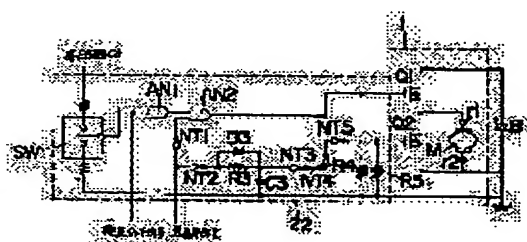
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## (54) MOTOR CONTROLLER

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To immediately stop the rotation of a DC motor when abnormality is detected, and besides, lighten the voltage stress or current stress of a MOSFET.

**SOLUTION:** A switch circuit 1 is equipped with a MOSFET Q1 connected in series to a DC motor M, and a MOSFET Q2 connected in parallel with the DC motor M. The series circuit of the DC motor M and the MOSFET Q1 is connected to a battery B at low voltage. When the MOSFET Q1 is turned on by a control signal generating circuit 22, the DC motor M is driven. Moreover, when the load of the DC motor M becomes large, and an overload signal is generated, the control signal generating circuit 22 turns off the MOSFET Q1 and turns on the MOSFET Q2, and lets the regenerated current of the DC motor M flow to the MOSFET Q2. In short, the DC motor M is stopped in a short time by letting the regenerated current flow to the DC motor M.



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